

# IDP Detector Engine Release Notes

June 29, 2017

## Contents

Recent Release History . . . . .	2
IDP Detector Engine Overview . . . . .	5
Understanding IDP Detector Engine Version Numbers . . . . .	7
Displaying the IDP Detector Engine Version Number . . . . .	7
Using NSM to Display the Detector Engine Version . . . . .	8
Using the IDP OS CLI to Display the Detector Engine Version . . . . .	8
Using the Junos OS CLI to Display the Detector Engine Version . . . . .	8
Using the ScreenOS CLI to Display the Detector Engine Version . . . . .	9
Updating the IDP Detector Engine . . . . .	9
Using NSM to Update the Detector Engine Software . . . . .	9
Using the Junos OS CLI to Update the Detector Engine Software . . . . .	10
Using J-Web to Update the Detector Engine Software . . . . .	10
Troubleshooting an IDP Detector Engine Update . . . . .	11
Reverting the IDP Detector Engine Version . . . . .	11
Changes in Behavior and Syntax . . . . .	11
Resolved Issues . . . . .	11
Deprecated smtp-data-line Context . . . . .	11
Deprecated pop3-data-line Context . . . . .	12
Requesting Technical Support . . . . .	12
Self-Help Online Tools and Resources . . . . .	12
Opening a Case with JTAC . . . . .	13
Revision History . . . . .	14

## Recent Release History

The following table summarizes the features and resolved issues in recent releases. You can use this table to help you decide to update the IDP detector engine version in your deployment.

**Table 1: IDP Detector Engine Features and Resolved Issues by Release**

Release Date	Detector Engine Version	Features and Resolved Issues
June 29, 2017	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110170603</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160170603</li> <li>• 12.6.140170603</li> <li>• 12.6.130170603</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.141818</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
November 03, 2016	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110161014</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160161014</li> <li>• 12.6.140161014</li> <li>• 12.6.130161014</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.141652</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.  Starting this release, the IDP detector engine supports SRX4100 and SRX4200 platforms.
June 21, 2016	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110160603</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160160603</li> <li>• 12.6.150160603</li> <li>• 12.6.140160603</li> <li>• 12.6.130160603</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.141597</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Features and Resolved Issues
December 10, 2015	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110151117</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160151117</li> <li>• 12.6.150151117</li> <li>• 12.6.140151117</li> <li>• 12.6.130151117</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.141455</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
October 8, 2015	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110151004</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160151004</li> <li>• 12.6.150151004</li> <li>• 12.6.140151004</li> <li>• 12.6.130151004</li> </ul> Screen OS <ul style="list-style-type: none"> <li>• 3.5.141421</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
June 25, 2015	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110150609</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160150609</li> <li>• 12.6.150150609</li> <li>• 12.6.140150609</li> <li>• 12.6.130150609</li> </ul> Screen OS <ul style="list-style-type: none"> <li>• 3.5.141332</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Features and Resolved Issues
September 10, 2014	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110140822</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160140822</li> <li>• 12.6.150140822</li> <li>• 12.6.140140822</li> <li>• 12.6.130140822</li> </ul> Screen OS <ul style="list-style-type: none"> <li>• 3.5.140842</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
June 17, 2014	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110140603</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160140603</li> <li>• 12.6.150140603</li> <li>• 12.6.140140603</li> <li>• 12.6.130140603</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.140733</li> </ul>	Feature release.  This release introduces new HTTP service contexts <b>http-flash</b> , <b>http-ole</b> , and <b>http-pdf</b> . Predefined signatures that used to use the http-data context to detect Flash, OLE, and PDF files have been rewritten to use the new context. If you have created custom signatures to detect Flash, OLE, or PDF, we recommend you rewrite your signatures to use the new, simpler contexts.
February 11, 2014	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110140207</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160140207</li> <li>• 12.6.150140207</li> <li>• 12.6.140140207</li> <li>• 12.6.130140207</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.140407</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.

Table 1: IDP Detector Engine Features and Resolved Issues by Release (*continued*)

Release Date	Detector Engine Version	Features and Resolved Issues
November 26, 2013	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110131122</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160131122</li> <li>• 12.6.150131122</li> <li>• 12.6.140131122</li> <li>• 12.6.130131122</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.140347</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
July 25, 2013	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110130715</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160130715</li> <li>• 12.6.150130715</li> <li>• 12.6.140130715</li> <li>• 12.6.130130715</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.140185</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.
April 16, 2013	IDP OS <ul style="list-style-type: none"> <li>• 5.1.110130325</li> </ul> Junos OS <ul style="list-style-type: none"> <li>• 12.6.160130325</li> <li>• 12.6.150130325</li> <li>• 12.6.140130325</li> <li>• 12.6.130130325</li> </ul> ScreenOS <ul style="list-style-type: none"> <li>• 3.5.140032</li> </ul>	Service release for IDP OS, Junos OS, and ScreenOS platforms.

## IDP Detector Engine Overview

The IDP detector engine is a dynamic protocol decoder that includes support for decoding more than 60 protocols and more than 500 service contexts. The IDP detector engine is used by the IDP process engine in packet analysis.

The detector engine and application signature code base is packaged and released separately from the IDP OS, ScreenOS, or Junos OS code bases. Juniper Networks Security

Intelligence Center releases IDP detector engine updates more frequently in order to ensure that IDP products protect your network against recently discovered vulnerabilities.



NOTE: We recommend you subscribe to the IDP Signature Updates technical bulletin to be notified when the Security Intelligence Center releases IDP detector engine updates. Go to <https://www.juniper.net/alerts/subscribe.jsp?actionBtn=Modify> (login required). We also suggest you subscribe to the RSS feed to follow signature update announcements. Go to <http://rss.juniper.net/p/subscribe> (no login required).

## Understanding IDP Detector Engine Version Numbers

The IDP detector engine versions that are compatible with your system vary by product family and operating system version. The following table summarizes IDP detector engine version compatibility.

**Table 2: IDP Detector Engine Version Compatibility**

Hardware	Operating System	IDP Detector Engine Version
IDP Series: IDP8200, IDP800, IDP250, IDP75	IDP 5.1.x	5.1.110YYMMDD
SRX Series (branch): SRX650, SRX550, SRX240, SRX210, SRX100	Junos OS 9.4 and later	12.6.160YYMMDD
M/MX Series	Junos OS 9.4 and later	12.6.150YYMMDD
SRX Series (high end): SRX5800, SRX5400, SRX5600, SRX3600, SRX3400, SRX1400	Junos OS 9.2 and later	12.6.140YYMMDD
vSRX, SRX1500, SRX4100, SRX4200	Junos OS 9.5 and later	12.6.130YYMMDD
ISG Series: ISG2000, ISG1000	ScreenOS 6.3.x, 6.2.x	3.5.xxxxxx

## Displaying the IDP Detector Engine Version Number

The following topics give procedures for displaying the IDP detector engine version number:

- [Using NSM to Display the Detector Engine Version on page 8](#)
- [Using the IDP OS CLI to Display the Detector Engine Version on page 8](#)
- [Using the Junos OS CLI to Display the Detector Engine Version on page 8](#)
- [Using the ScreenOS CLI to Display the Detector Engine Version on page 9](#)

## Using NSM to Display the Detector Engine Version

To view the version of the latest IDP detector engine that has been downloaded to the NSM GUI server:

- In NSM, select **Tools > View/Update NSM Attack Database** and click **Next**.

The wizard displays the IDP detector engine versions that have been downloaded to the NSM GUI server.

To view version information for the IDP detector engine installed on an IDP Series device:

- In the NSM device manager, double-click the IDP or ISG Series device to display the device configuration editor.

For IDP OS and Junos OS devices, the Info node displays version information, including the IDP detector engine version.

For ScreenOS devices, navigate to **Security > SM Settings** to display the IDP detector engine version.

## Using the IDP OS CLI to Display the Detector Engine Version

To display the IDP detector engine version number on an IDP OS device:

1. Connect to the CLI as the user **admin** and switch to the user **root**.
2. Run the **scio getsystem** command as shown in the following example:

```
login as: admin
admin's password:

Last login: Thu May  9 17:31:47 2010 from 10.150.99.42

[admin@idp ~]$ su -
Password:

[root@idp ~]# scio getsystem
Product Name: NS-IDP-8200
Serial Number: 0254092008000019
Software Version: 5.0.127636
IDP Mode: transparent
HA Mode: Disabled
Detector Version: 5.0.110100517
Software License: Evaluation
Software Expiration Date: 4/25/2011
[root@idp ~]#
```

In this example, the version is 5.0.110100517.

## Using the Junos OS CLI to Display the Detector Engine Version

To display the IDP detector engine version on a Junos OS device:

1. Log in to the Junos OS CLI and enter operational mode. For details, see the Junos OS documentation.



2. Enter the command shown in the following example:

```
user@host> show security idp security-package-version
Attack database version:1651(Wed May 21 16:42:03 2010)
Detector version :10.4.140100513
Policy template version :N/A
```

In this example, the detector version number is 10.4.140100513.

## Using the ScreenOS CLI to Display the Detector Engine Version

To display the IDP detector engine version number on a ScreenOS device:

1. Connect to the CLI as the user **admin** and switch to the user **root**.
2. Run the **get system** command as shown in the following example:

```
[root@defaulthost admin]# get system

[.]
IDP files version:

detector.so 3.5.135690

[root@defaulthost admin]#
```

The line for detector.so shows the version of the detector. In this example, the version is 3.5.135690.

## Updating the IDP Detector Engine

The following topics give procedures for updating IDP detector engine software:

- [Using NSM to Update the Detector Engine Software on page 9](#)
- [Using the Junos OS CLI to Update the Detector Engine Software on page 10](#)
- [Using J-Web to Update the Detector Engine Software on page 10](#)

## Using NSM to Update the Detector Engine Software

To update the IDP detector engine using NSM:

1. Download IDP detector engine and NSM attack database updates to the NSM GUI server:

In NSM, select **Tools > View/Update NSM attack database** and complete the wizard steps.

2. Push the updated IDP detector engine to IDP devices:

For IDP OS or ScreenOS devices, select **Devices > IDP Detector Engine > Load IDP Detector Engine for ScreenOS** and complete the wizard steps.

For Junos OS devices, select **Devices > IDP Detector Engine > Load IDP Detector Engine for JUNOS** and complete the wizard steps.

3. Run a security policy update job to initialize the IDP detector engine update:
  - a. In NSM, select **Devices > Configuration > Update Device Config**.
  - b. Select devices to which to push the updates and set update job options.
  - c. Click **OK**.



**NOTE:** Updating the IDP detector engine on a device does not require a reboot of the device.

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## Using the Junos OS CLI to Update the Detector Engine Software

To update a Junos OS device using the Junos OS CLI:

1. Download the security package. The security package includes the detector and the latest attack objects and groups.

```
user@host> request security idp security-package download full-update
```

2. Update the attack database, the active policy, and the detector with the new package.

```
user@host> request security idp security-package install
```

3. Check the attack database update status with the following command. The command output displays information about the downloaded and installed versions of attack database versions.

```
user@host> request security idp security-package install status
```

4. Commit the configuration.

For additional information, see the Junos OS security configuration [documentation](#).

## Using J-Web to Update the Detector Engine Software

To update a Junos OS device using J-Web Quick Configuration:

1. Select **Configuration > Quick Configuration > Security Policies > IDP Policies**.
2. From the IDP policies page, click **Security Package Update**.
3. From the IDP page, click **Signature/Policy Update**.

4. Complete the configuration as described in the online help.
5. Click **Apply**.

For additional information, see the Junos OS security configuration [documentation](#).

## Troubleshooting an IDP Detector Engine Update

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In NSM, the default URL from which to obtain updates is <https://services.netscreen.com/restricted/sigupdates/nsm-updates/NSM-SecurityUpdateInfo.dat>. If you encounter connection errors, ensure this setting has not been inadvertently changed.

To restore the default URL:

1. Select **Tools > Preferences**.
2. Click **Attack Object**.
3. Click **Restore Defaults**.

NSM restores the URL in the **Download URL for ScreenOS Devices** text box.

4. Click **OK**.

## Reverting the IDP Detector Engine Version

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In most cases, your use of the IDP feature set will not benefit from reverting the IDP detector engine version. In some cases, however, you might be required to revert. If you encounter an issue and need to revert, contact Juniper Networks Technical Assistance Center (JTAC).

## Changes in Behavior and Syntax

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This section lists the changes in behavior of detector engine features and changes in the syntax of detector engine statements and commands.

- The default value of the k-const `sc_dns_udp_message_limit` was changed from 1024 to 512. The change addressed false positives (FPs) for the related anomaly `DNS:OVERFLOW:OVERSIZED-UDP-MSG`.

## Resolved Issues

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No resolved issues for this release.

## Deprecated `smtp-data-line` Context

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In this release, the `smtp-data-line` context is deprecated and following context will be replacing this context:

- For text content, **smtp-data-text-plain** context will be generated.
- For html content, **smtp-data-text-html** context will be generated.
- For pdf content, **smtp-pdf** context will be generated.
- If the content is not text/html/pdf, the detector engine generates **smtp-mine-content-data** context.

## Deprecated pop3-data-line Context

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In this release, the **pop3-data-line** context is deprecated and following context will be replacing this context:

- For text content, **pop3-data-text-plain** context will be generated.
- For html content, **pop3-data-text-html** context will be generated.
- For pdf content, **pop3-pdf** context will be generated.
- If the content is not text/html/pdf, the detector engine generates **pop3-mine-content-data** context.

## Requesting Technical Support

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Technical product support is available through the Juniper Networks Technical Assistance Center (JTAC). If you are a customer with an active J-Care or Partner Support Service support contract, or are covered under warranty, and need post-sales technical support, you can access our tools and resources online or open a case with JTAC.

- JTAC policies—For a complete understanding of our JTAC procedures and policies, review the *JTAC User Guide* located at <http://www.juniper.net/us/en/local/pdf/resource-guides/7100059-en.pdf>.
- Product warranties—For product warranty information, visit <http://www.juniper.net/support/warranty/>.
- JTAC hours of operation—The JTAC centers have resources available 24 hours a day, 7 days a week, 365 days a year.

## Self-Help Online Tools and Resources

For quick and easy problem resolution, Juniper Networks has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

- Find CSC offerings: <http://www.juniper.net/customers/support/>
- Search for known bugs: <https://prsearch.juniper.net/>
- Find product documentation: <http://www.juniper.net/documentation/>
- Find solutions and answer questions using our Knowledge Base: <http://kb.juniper.net/>

- Download the latest versions of software and review release notes:  
<http://www.juniper.net/customers/csc/software/>
- Search technical bulletins for relevant hardware and software notifications:  
<http://kb.juniper.net/InfoCenter/>
- Join and participate in the Juniper Networks Community Forum:  
<http://www.juniper.net/company/communities/>
- Open a case online in the CSC Case Management tool: <http://www.juniper.net/cm/>

To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://entitlementsearch.juniper.net/entitlementsearch/>

### Opening a Case with JTAC

You can open a case with JTAC on the Web or by telephone.

- Use the Case Management tool in the CSC at <http://www.juniper.net/cm/>.
- Call 1-888-314-JTAC (1-888-314-5822 toll-free in the USA, Canada, and Mexico).

For international or direct-dial options in countries without toll-free numbers, see <http://www.juniper.net/support/requesting-support.html>.

## Revision History

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29 June 2017—Revision 1, IDP Detector Engine Release Notes

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